



A-688A.ST25.txt  
SEQUENCE LISTING

<110> FEIGE, ULRICH  
KOHNO, TADAHIKO  
LACEY, DAVID  
BOONE, THOMAS CHARLES

<120> ADHESION ANTAGONISTS (as amended)

<130> A-688A

<140> US 09/840,277

<141> 2001-04-23

<150> US 60/198,919

<151> 2000-04-21

<150> US 60/201,394

<151> 2000-05-03

<160> 135

<170> PatentIn version 3.1

<210> 1

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<212> DNA

<213> Homo sapiens

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gga gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc	96	
Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu	20 25 30	
atg atc tcc cgg acc cct gag gtc aca tgc gtg gtg gtg gac gtg agc	144	
Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser	35 40 45	
cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac ggc gtg gag	192	
His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu	50 55 60	
gtg cat aat gcc aag aca aag ccg cgg gag gag cag tac aac agc acg	240	
Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr	65 70 75 80	
tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat	288	
Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn	85 90 95	
ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc ccc	336	
Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro	100 105 110	
atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag	384	
Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln	115 120 125	
gtg tac acc ctg ccc cca tcc cgg gat gag ctg acc aag aac cag gtc	432	
Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val	130 135 140	
agc ctg acc tgc ctg gtc aaa ggc ttc tat ccc agc gac atc gcc gtc	480	
Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val	145 150 155 160	
gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc acg cct	528	
Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro	165 170 175	
ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc acc	576	
Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr	180 185 190	
gtg gac aag agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtc	624	
Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val	195 200 205	
atg cat gag gct ctg cac aac cac tac acg cag aag agc ctc tcc ctg	672	
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20 25 30

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser  
35 40 45

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu  
50 55 60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr  
65 70 75 80

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn  
85 90 95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro  
100 105 110

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln  
115 120 125

Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val  
130 135 140

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val  
145 150 155 160

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro  
165 170 175

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr  
180 185 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val  
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Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu  
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Ser Pro Gly Lys  
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<222> (2 and) .. (3)

<223> Xaa is any amino acid

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<210> 13

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<220>

<221> misc\_feature

<222> (1, 2, 3, 7, 8 and) .. (9)

<223> Xaa is any amino acid with Xaa at 1, 3, 7 and 9 capable of forming a bridge.

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Xaa Xaa Xaa Arg Gly Asp Xaa Xaa Xaa  
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<222> (1 and)..(8)  
<223> xaa is an independently selected amino acid.

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<222> (2 and)..(7)  
<223> xaa equals 0 to 4 amino acids, each which is independently selected.

<220>  
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<222> (4)..(4)  
<223> xaa is selected from the group consisting of glycine and leucine.

<220>  
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<221> misc\_feature

<222> (5)..(5)

<223> xaa is selected from the group consisting of tryptophan and leucine.

<400> 15

xaa Xaa Asp Asp Xaa Xaa Xaa Xaa  
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<222> (2 and)..(9)

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<222> (3)..(3)

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Arg Lys Xaa Asn Xaa Xaa Trp Thr Trp Val Gly Thr Xaa Lys Xaa Leu  
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Thr Glu Glu

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A-688A.ST25.txt

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Thr Xaa Glu

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<222> (1, 3, 6, 9, 12)..(13)

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Gly Ser Leu  
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Arg Gly Asp  
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Ser Arg Gly Val Asn Phe Ser Glu Trp Leu Tyr Asp Met Ser Ala Ala  
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Ser Ser Gln Asn Trp Asp Met Glu Ala Gly Val Glu Asp Leu Thr Ala  
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A-688A.ST25.txt

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Asp Ala Thr Arg Thr Ser Ile Pro Pro Ser Leu Gln Asn Ser Arg  
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Glu Lys

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A-688A.ST25.txt

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Cys Ala Arg Arg Leu Asp Ala Pro Cys  
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A-688A.ST25.txt

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Arg Gly Asp Leu Ala Ala Leu Ser Ala Pro Pro Val  
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Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys  
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<223> Selectin antagonist peptide

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A-688A.ST25.txt

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Asp Tyr Thr Trp Phe Glu Leu Trp Asp Met Met Gln  
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His Val Ser Trp Glu Gln Leu Trp Asp Ile Met Asn  
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His Arg Ala Glu Trp Leu Ala Leu Trp Glu Gln Met Ser Pro  
1 5 10

A-688A.ST25.txt

<210> 77  
<211> 14  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Selectin antagonist peptide  
<400> 77

Lys Lys Glu Asp Trp Leu Ala Leu Trp Arg Ile Met Ser Val  
1 5 10

<210> 78  
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<220>  
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Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys  
1 5 10

<210> 79  
<211> 12  
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<213> Artificial Sequence

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<223> Selectin antagonist peptide  
<400> 79

Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys  
1 5 10

<210> 80  
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<213> Artificial Sequence

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<223> Selectin antagonist peptide

<400> 80

Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys  
1 5 10

<210> 81

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Selectin antagonist peptide

<400> 81

Asp Ile Thr Trp Asp Gln Leu Trp Asp Leu Met Lys  
1 5 10

<210> 82

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Selectin antagonist peptide

<400> 82

Cys Gln Asn Arg Tyr Thr Asp Leu Val Ala Ile Gln Asn Lys Asn Glu  
1 5 10 15

<210> 83

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Selectin antagonist peptide

<400> 83

A-688A.ST25.txt

Ala Glu Asn Trp Ala Asp Asn Glu Pro Asn Asn Lys Arg Asn Asn Glu  
1 5 10 15

Asp

<210> 84

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Selectin antagonist peptide

<400> 84

Arg Lys Asn Asn Lys Thr Trp Thr Trp Val Gly Thr Lys Lys Ala Leu  
1 5 10 15

Thr Asn Glu

<210> 85

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Selectin antagonist peptide

<400> 85

Lys Lys Ala Leu Thr Asn Glu Ala Glu Asn Trp Ala Asp  
1 5 10

<210> 86

<211> 16

<212> PRT

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<220>

<223> Selectin antagonist peptide

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A-688A.ST25.txt

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<222> (3 and)..(15)  
<223> Xaa is any amino acid residue

<400> 86

Cys Gln Xaa Arg Tyr Thr Asp Leu Val Ala Ile Gln Asn Lys Xaa Glu  
1 5 10 15

<210> 87

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> selectin antagonist peptide

<220>

<221> misc\_feature

<222> (13 and)..(15)

<223> Xaa is any amino acid residue

<400> 87

Ala Glu Asn Trp Ala Asp Gly Glu Pro Asn Asn Lys Xaa Asn Xaa Glu  
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Asp

<210> 88

<211> 30

<212> PRT

<213> Artificial Sequence

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<223> vinculin binding peptide

<400> 88

Ser Ser Gln Asn Trp Asp Met Glu Ala Gly Val Glu Asp Leu Thr Ala  
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A-688A.ST25.txt

Ala Met Leu Gly Leu Leu Ser Thr Ile His Ser Ser Ser Arg  
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<210> 89

<211> 31

<212> PRT

<213> Artificial Sequence

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<223> Vinculin binding peptide

<400> 89

Ser Ser Pro Ser Leu Tyr Thr Gln Phe Leu Val Asn Tyr Glu Ser Ala  
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Ala Thr Arg Ile Gln Asp Leu Leu Ile Ala Ser Arg Pro Ser Arg  
20 25 30

<210> 90

<211> 31

<212> PRT

<213> Artificial Sequence

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<223> Vinculin binding peptide

<400> 90

Ser Ser Thr Gly Trp Val Asp Leu Leu Gly Ala Leu Gln Arg Ala Ala  
1 5 10 15

Asp Ala Thr Arg Thr Ser Ile Pro Pro Ser Leu Gln Asn Ser Arg  
20 25 30

<210> 91

<211> 18

<212> PRT

<213> Artificial Sequence

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<223> Vinculin binding peptide

<400> 91

A-688A.ST25.txt

Asp Val Tyr Thr Lys Lys Glu Leu Ile Glu Cys Ala Arg Arg Val Ser  
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Glu Lys

<210> 92

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Vinculin binding peptide

<400> 92

Ser Thr Gly Gly Phe Asp Asp Val Tyr Asp Trp Ala Arg Gly Val Ser  
1 5 10 15

Ser Ala Leu Thr Thr Thr Leu Val Ala Thr Arg  
20 25

<210> 93

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Vinculin binding peptide

<400> 93

Ser Thr Gly Gly Phe Asp Asp Val Tyr Asp Trp Ala Arg Arg Val Ser  
1 5 10 15

Ser Ala Leu Thr Thr Thr Leu Val Ala Thr Arg  
20 25

<210> 94

<211> 30

<212> PRT

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A-688A.ST25.txt

<223> Vinculin binding peptide

<400> 94

Ser Arg Gly Val Asn Phe Ser Glu Trp Leu Tyr Asp Met Ser Ala Ala  
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Met Lys Glu Ala Ser Asn Val Phe Pro Ser Arg Arg Ser Arg  
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<223> Laminin related peptide

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Arg Glu Asp Val Glu Ile Leu Asp Val Tyr Ile Gly Ser Arg Pro Asp  
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Ser Gly Arg

<210> 96

<211> 19

<212> PRT

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<223> Laminin related peptide

<400> 96

Tyr Ile Gly Ser Arg Arg Glu Asp Val Glu Ile Leu Asp Val Pro Asp  
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Ser Gly Arg

<210> 97

<211> 44

<212> DNA

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A-688A.ST25.txt

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<223> Used to form echistatin template for PCR

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44

<210> 98

<211> 44

<212> DNA

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<223> Used to form echistatin template for PCR

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44

<210> 99

<211> 44

<212> DNA

<213> Artificial Sequence

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<223> Used to form echistatin template for PCR

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44

<210> 100

<211> 51

<212> DNA

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<220>

<223> Used to form echistatin template for PCR

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51

<210> 101

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A-688A.ST25.txt

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<223> Used to form echistatin template for PCR

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24

<210> 102

<211> 24

<212> DNA

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<220>

<223> Used to form echistatin template for PCR

<400> 102

cgtccatgtc gtcacctcta gctc

24

<210> 103

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> used to form echistatin template for PCR

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gtgtgggttt ctcgggcagt caca

24

<210> 104

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 104

ccgggttaaag gtggaggtgg tggtaatgt gaatctggtc catgctgc

48

A-688A.ST25.txt

<210> 105

<211> 48

<212> DNA

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<223> PCR primer

<400> 105

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48

<210> 106

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 106

aacataagta cctgttaggat cg

22

<210> 107

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 107

gcagcatgga ccagattcac attcaccacc acctccaccc ttacccgga

49

<210> 108

<211> 859

<212> DNA

<213> Artificial Sequence

<220>

<223> Echistatin Fc-peptide

A-688A.ST25.txt

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<223>

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<222> (1)..(1)

<223> NdeI site

<220>

<221> misc\_feature

<222> (854)..(854)

<223> BamHI site

<400> 108

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Met	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Pro	Ala	Pro	Glu	Leu
1				5					10					15	

48

ctg	ggg	gga	ccg	tca	gtc	ttc	ctc	ttc	ccc	cca	aaa	ccc	aag	gac	acc
Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr
20							25						30		

96

ctc	atg	atc	tcc	cg	acc	cct	gag	gtc	aca	tgc	gtg	gtg	gtg	gac	gtg
Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Th	Cys	Val	Val	Val	Asp	Val
35						40			45						

144

agc	cac	gaa	gac	cct	gag	gtc	aag	ttc	aac	tgg	tac	gtg	gac	ggc	gtg
Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val
50						55			60						

192

gag	gtg	cat	aat	gcc	aag	aca	aag	ccg	cg	gag	gag	cag	tac	aac	agc
Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser
65						70			75						

240

acg	tac	cgt	gtg	gtc	agc	gtc	ctc	acc	gtc	ctg	cac	cag	gac	tgg	ctg
Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp	Trp	Leu
80						85			90				95		

288

aat	ggc	aag	gag	tac	aag	tgc	aag	gtc	tcc	aac	aaa	gcc	ctc	cca	gcc
Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu	Pro	Ala
								105				110			

336

ccc	atc	gag	aaa	acc	atc	tcc	aaa	gcc	aaa	ggg	cag	ccc	cga	gaa	cca
Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg	Glu	Pro
115							120					125			

384

cag	gtg	tac	acc	ctg	ccc	cca	tcc	cg	gat	gag	ctg	acc	aag	aac	cag
Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Thr	Lys	Asn	Gln
130							135			140					

432

A-688A.ST25.txt

gtc	agc	ctg	acc	tgc	ctg	gtc	aaa	ggc	ttc	tat	ccc	agc	gac	atc	gcc	480
Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	
145					150					155						
gtg	gag	tgg	gag	agc	aat	ggg	cag	ccg	gag	aac	aac	tac	aag	acc	acg	528
Val	Glu	Trp	Gl	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	
160					165				170				175			
cct	ccc	gtg	ctg	gac	tcc	gac	ggc	tcc	ttc	ttc	ctc	tac	agc	aag	ctc	576
Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	
					180				185				190			
acc	gtg	gac	aag	agc	agg	tgg	cag	cag	ggg	aac	gtc	ttc	tca	tgc	tcc	624
Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	
					195				200				205			
gtg	atg	cat	gag	gct	ctg	cac	aac	cac	tac	acg	cag	aag	agc	ctc	tcc	672
Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	
					210			215				220				
ctg	tct	ccg	ggt	aaa	ggt	gga	ggt	ggt	ggt	gaa	tgt	gaa	tct	ggt	cca	720
Leu	Ser	Pro	Gly	Lys	Gly	Gly	Gly	Gly	Gly	Glu	Cys	Glu	Ser	Gly	Pro	
					225			230				235				
tgc	tgc	aga	aac	tgt	aag	ttc	ttg	aag	gaa	ggt	acc	atc	tgt	aag	aga	768
Cys	Cys	Arg	Asn	Cys	Lys	Phe	Leu	Lys	Glu	Gly	Thr	Ile	Cys	Lys	Arg	
					240			245				250			255	
gct	aga	ggt	gac	gac	atg	gac	gac	tac	tgt	aac	ggt	aag	acc	tgt	gac	816
Ala	Arg	Gly	Asp	Asp	Met	Asp	Asp	Tyr	Cys	Asn	Gly	Lys	Thr	Cys	Asp	
					260				265				270			
tgc	ccg	aga	aac	cca	cac	aag	ggt	cca	gct	act	taatggatcc					859
Cys	Pro	Arg	Asn	Pro	His	Lys	Gly	Pro	Ala	Thr						
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<211> 282

<212> PRT

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<223> Echistatin Fc-peptide

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<223> BamHI site

<400> 109

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Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu  
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Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu  
20 25 30

Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser  
35 40 45

His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu  
50 55 60

Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr  
65 70 75 80

Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn  
85 90 95

Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro  
100 105 110

Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln  
115 120 125

Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val  
130 135 140

Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val  
145 150 155 160

Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro  
165 170 175

Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr  
180 185 190

Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val  
195 200 205

Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu  
210 215 220

Ser Pro Gly Lys Gly Gly Gly Glu Cys Glu Ser Gly Pro Cys  
225 230 235 240

Cys Arg Asn Cys Lys Phe Leu Lys Glu Gly Thr Ile Cys Lys Arg Ala  
245 250 255

Arg Gly Asp Asp Met Asp Asp Tyr Cys Asn Gly Lys Thr Cys Asp Cys  
260 265 270

A-688A.ST25.txt

Pro Arg Asn Pro His Lys Gly Pro Ala Thr  
275 280

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ggcggtgata ctgagcacat 140

<210> 111  
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<223> Clai site

A-688A.ST25.txt

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ctccttgatgtt ggacaaatcc gcccggagcg gatttgaacg ttgcgaagca acggcccgaa 180  
gggtggcgaa caggacgccc gccataaaact gccaggcatc aaattaagca gaaggccatc 240  
ctgacggatg gccttttttttgc gtttctacaa actctttttgt ttatttttctt aaatacattc 300  
aaatatggac gtcgtactta acttttaaag tatggcaat caattgctcc tgtaaaattt 360  
gcttttagaaa tactttggca gcggttttttt gttttttttt gttttttttt ttggtaaa 420  
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aatatattcc	aattaatcggtt gaaatgattt gaggtaaat aatctactat aggatcatat
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gataatatat gagcacaaaaa aagaaaccat taacacaaga gcagcttgag gacgcacgtc 180  
gccttaaagc aatttatgaa aaaaagaaaaa atgaacttgg cttatcccag gaatctgtcg 240  
cagacaagat ggggatgggg cagtcaggcg ttggtgcttt atttaatggc atcaatgcat 300  
taaatgctta taacgcccga ttgcttacaa aaattctcaa agttagcggtt gaagaattta 360  
gcccttcaat cgccagagaa tctacgagat gtatgaagcg gtttagtatgc agccgtcact 420  
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gccaagctt	cctgacggaa	tgttaattct	cgttgaccct	gagcaggctg	ttgagccagg	660
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tagcggtcag	gtgttttac	aaccactaaa	cccacagtac	ccaatgatcc	catgcaatga	780
gagttgttcc	gttgtgggaa	aagttatcgc	tagtcagtgg	cctgaagaga	cgtttggctg	840
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<210> 114

<211> 1197

<212> DNA

<213> Artificial Sequence

<220>

<223> GM221

<400> 114

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ctgcgaaaac	gcggaaaaaa	gtcgaagcgg	cgatggcgga	gctgaattac	attcccaacc	240
gcgtggcaca	acaactggcg	ggcaaacagt	cgctcctgat	tggcgttgcc	acctccagtc	300
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gtgccagcgt	ggtgggtcg	atggtagaac	gaagcggcgt	cgaagcctgt	aaagcggcg	420
tgcacaatct	tctcgcgcaa	cgcgtcagtg	ggctgatcat	taactatccg	ctggatgacc	480
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ctgtctcgcc	gcgtctgcgt	ctggctggct	ggcataaata	tctcaactcgc	aatcaaattc	720
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tgggcgcaat	gcfgccatt	accgagtccg	ggctgcgcgt	tggtgcggat	atctcggtag	900
tgggatacga	cgataccgaa	gacagctcat	gttatatccc	gccgttaacc	accatcaaac	960
aggatttcg	cctgctgggg	caaaccagcg	tggaccgctt	gctgcaactc	tctcagggcc	1020
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cgcccaatac	gcaaaccgccc	tctcccgcg	cgttggccga	ttcattaaatg	cagctggcac	1140

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<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 115

Met Tyr Ile Gly Ser Arg Gly Gly Gly Gly  
1 5 10

<210> 116

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 116

Met Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
1 5 10 15

<210> 117

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 117

Met Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
1 5 10 15

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
20 25

<210> 118

A-688A.ST25.txt

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 118

Met Ile Pro Cys Asn Asn Lys Gly Ala His Ser Val Gly Leu Met Trp  
1 5 10 15

Trp Met Leu Ala Arg Gly Gly Gly Gly  
20 25

<210> 119

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 119

Met Tyr Ile Gly Ser Arg Arg Glu Asp Val Glu Ile Leu Asp Val Pro  
1 5 10 15

Asp Ser Gly Arg Gly Gly Gly Gly  
20 25

<210> 120

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 120

Met Arg Gly Asp Arg Gly Asp Tyr Ile Gly Ser Arg Arg Gly Asp Gly  
1 5 10 15

Gly Gly Gly Gly

<210> 121  
<211> 48  
<212> DNA  
<213> Artificial Sequence

&lt;220&gt;

<223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc  
<400> 121  
gaataacata tgtacatcgg ttctcgtggt ggaggcggtg gggacaaa 48

<210> 122  
<211> 81  
<212> DNA  
<213> Artificial Sequence

&lt;220&gt;

<223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc  
<400> 122  
gaataacata tgtacatcgg ttctcgttat attggctccc gctacattgg tagccgtgac 60  
aaaactcaca catgtccacc t 81

<210> 123  
<211> 111  
<212> DNA  
<213> Artificial Sequence

&lt;220&gt;

<223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc  
<400> 123  
gaataacata tgtacatcgg ttctcgttat attggctccc gctacattgg tagccgttat 60  
atcggctctc gctatattgg tagccgcac aaaactcaca catgtccacc t 111

<210> 124  
<211> 93

A-688A.ST25.txt

<212> DNA

<213> Artificial Sequence

<220>

<223> Encoding Laminin related peptide; for PCR reaction to yield in-frame fusion to Fc

<400> 124

gaataacata tgatcccgta caacaacaaa ggtgctcaact ctgttggtct gatgtggtgg 60  
atgctggctc gtggtggagg cggtgggac aaa 93

<210> 125

<211> 90

<212> DNA

<213> Artificial Sequence

<220>

<223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc

<400> 125

gaataacata tgtacatcgg ttctcgctgt gaagacgtt gaaatcctgga cgttccggac 60  
tctggtcgtg gtggaggcgg tggggacaaa 90

<210> 126

<211> 75

<212> DNA

<213> Artificial Sequence

<220>

<223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc

<400> 126

gaataacata tgcgtggta ccgtggtgac tacatcggtt ctcgtcgtgg tgacggtgga 60  
ggcgggtggg acaaa 75

<210> 127

<211> 20

<212> DNA

<213> Artificial Sequence

A-688A.ST25.txt

<220>

<223> Encoding Laminin related peptide, for PCR reaction to yield in-frame fusion to Fc

<400> 127  
gttatttgctc agcggtggca

20

<210> 128

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 128

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
1 5 10

<210> 129

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 129

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
1 5 10 15

<210> 130

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 130

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr  
1 5 10 15

Ile Gly Ser Arg  
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<210> 131

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 131

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr  
1 5 10 15

Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
20 25

<210> 132

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 132

Ile Pro Cys Asn Asn Lys Gly Ala His Ser Val Gly Leu Met Trp Trp  
1 5 10 15

Met Leu Ala Arg  
20

<210> 133

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

A-688A.ST25.txt

<400> 133

Tyr Ile Gly Ser Arg Arg Glu Asp Val Glu Ile Leu Asp Val Pro Asp  
1 5 10 15

Ser Gly Arg

<210> 134

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 134

Arg Gly Asp Arg Gly Asp Tyr Ile Gly Ser Arg Arg Gly Asp  
1 5 10

<210> 135

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Laminin related peptide

<400> 135

Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr Ile Gly Ser Arg Tyr  
1 5 10 15

Ile Gly Ser Arg Tyr Ile Gly Ser Arg  
20 25